

ABSTRACT OF THE DISCLOSURE

A MOSFET and the method for fabricating them are disclosed to make the inkjet head chips. The MOSFET has the scaled-down junction formation for the source and drain. Using a lower temperature process and interlayer dielectric, the source and drain dopants can not be
5 diffused deeply due to high-temperature driver-in. The contact holes of the drain are provided with plugs of refractory material to avoid spiking between the metal and silicon. This achieves the requirement of high-density devices on the print head chip.